

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A panel radiator, comprising:

an oblong radiation panel body having upper and lower ends; and

an oblong, rectangular steam generation unit that has a length shorter than a length

of said radiation panel body and that is located on a lower part of said radiation panel body, said steam generation unit having a combustion unit and a heat exchange unit, said combustion unit adapted to directly heat a liquid working fluid and being provided on one side of said rectangular steam generation unit to permit a pressure difference to be formed in said steam generation unit based on a thermal gradient;

left and right steam introduction pipes on an upper end of said steam generation unit respectively coupled with a lower end of left and right steam introduction headers of said radiation panel body, one of said left and right steam introduction headers opening into said lower end of said radiation panel body and the other one opening only into said upper end of said radiation panel body, said steam introduction header opening only into said upper end of said radiation panel body extending from said side of

said rectangular steam generation unit in which said combustion unit is provided; and

a heat pipe constituted by the steam generation unit and panel body upon depressurization.

Claims 2-10 (canceled).

Claim 11 (currently amended): A panel radiator according to claim [10] 1, wherein said radiation panel body includes a pair of front and back panel plates.

Claim 12 (previously presented): A panel radiator according to claim 11, wherein a radiation fin is provided between said pair of front and back panel plates.

Claim 13 (currently amended): A panel radiator according to claim [12] 11, wherein a radiation fin is provided on the front and back of said panel plates.

Claim 14 (canceled).

Claim 15 (previously presented): A panel radiator according to claim 1, wherein said radiation panel body includes a plurality of tubular panel plates in communication at both ends.

Claim 16 (previously presented): A panel radiator according to claim 15, wherein a radiation fin is provided on the front and back of said panel plates.

Claim 17 (previously presented): A panel radiator according to claim 15, wherein said radiation panel body includes a pair of front and back panel plates.

Claim 18 (previously presented): A panel radiator according to claim 17, wherein a radiation fin is provided on the front and back of said panel plates.

Claims 19-23 (canceled).

Claim 24 (new): A panel radiator, comprising:

an oblong radiation panel body having upper and lower ends and steam

introduction headers on opposite sides; and

an oblong steam generation unit located adjacent said lower end of said radiation

panel body and having a combustion unit and a heat exchange unit

extending therein, said combustion unit adapted to directly heat a liquid

working fluid and being provided in one side of said oblong steam

generation unit to form a pressure difference in said steam generation unit

based on thermal gradient; and

steam introduction pipes extending from opposite sides of said steam generation unit respectively coupled with said steam introduction headers of said radiation panel body;

one of said steam introduction headers opening into said lower end of said radiation panel body and the other one of said steam introduction headers opening only into said upper end of said radiation panel body, said steam introduction header opening only into said upper end of said radiation panel body extending from said side of said rectangular steam generation unit in which said combustion unit is provided; and

said oblong steam generation unit having a length shorter than a length of said oblong radiation panel body, and said steam generation unit and panel body constituting a heat pipe upon depressurization.